LETTER TO THE EDITOR Pediatric Dentistry

Zika virus infection spread through saliva

Viroj WIWANITKIT

Surin Rajabhat University, Bangkok, Thailand.

induce neonatal problem.^{1,2} Based on the publication by Siqueira et al.,³ the important question is whether the Zika virus infection can spread through saliva or not. Inddeed, the Zika virus can be seen in several body fluids including to urine but there is limited evidence on its appearance on saliva. The spreading or transmission via saliva can occur only if the virus can be secreted and exist in saliva and the virus can enter to the other one via mucous membrane or wound. Based on its similar viral infection, dengue, there has never been report on existence of dengue virus in saliva and transmission via saliva.⁴ For any new virus, another important concern is on the nanostructural size of the virus that can determine whether it can pass the physiological barrier and medical protective device to cause the infection.⁵ Focusing on the nanoanatomy, the molecular size of the Zika virus is similar to dengue virus. It is no doubt that the virus will pass ultrafiltration process and cellular membrane during the saliva generation and secretion. Hence, it is unlikely that the

Zika virus infection is an important problem in the present day. It is an acute hemorrhagic disease that is highly similar to dengue but it can

Declaration of Interests: The authors certify that they have no commercial or associative interest that represents a conflict of interest in connection with the manuscript.

Corresponding Author:

Viroj Wiwanitkit E-mail: wviroj@yahoo.com

DOI: 10.1590/1807-3107BOR-2016.vol30.0076

Submited: Mar 17, 2016 Accepted for publication: Apr 05, 2016 Last revised: May 02, 2016

References

Zika virus can spread through saliva.

Dear Editor,

- 1. Joob B, Wiwanitkit V. Zika virus infection and dengue: a new problem in diagnosis in a dengue-endemic area. Ann Trop Med Public Health. 2015;8:145-6. doi:10.4103/1755-6783.162402
- 2. Wiwanitkit S, Wiwanitkit V. Acute viral hemorrhage disease: a summary on new viruses. J Acute Dis. 2015;4(4):277-9. doi:10.1016/j.joad.2015.06.004
- Siqueira WL, Moffa EB, Mussi MC, Machado MA. Zika virus infection spread through saliva - a truth or myth? Braz Oral Res. 2016;30(1):e46. doi:10.1590/1807-3107BOR-2016.vol30.0046
- 4. Wiwanitkit V. Unusual mode of transmission of dengue. J Infect Dev Ctries. 2009;4(1):51-4. doi:10.3855/jidc.145
- Wiwanitkit V. N-95 face mask for prevention of bird flu virus: an appraisal of nanostructure and implication for infectious control. Lung. 2006;184(6):373-4. doi:10.1007/s00408-006-0021-4

